

Ming Sun

Email: sunmingac@gmail.com

LinkedIn: [sunmingac](#)

Summary

Experienced Scala Developer with 7+ years in functional programming and over 10 years with JVM technologies. Skilled in advanced Scala libraries, DevOps, mentoring, and Agile project management. Currently exploring Machine Learning and LLMs to improve data-driven decision-making and automation.

Technical Skills

Cats, Cats-effect, Http4s, fs2, ZIO, Akka, Circe, Kyo
Scala, Java, Rust, Python, Javascript
Docker, Kubernetes, AWS
Linux & MacOS, Git
TDD, BDD, CI/CD, Jenkins, Scrum, Kanban
PostgreSQL, MongoDB, Vector Database, Apache Kafka

Professional Experience

Scala Developer (Contract)

HMRC (UK) — Jun 2021 - Feb 2023

- Engineered and maintained secure authentication services, directly impacting user access for millions of UK citizens.
- Leveraged Scala ecosystem technologies such as Cats, Cats Effect, Akka, and MongoDB.
- Optimized application performance and reliability on AWS, using monitoring tools like Kibana and Grafana.

Scala Developer

Sky (Osterley, UK) — Mar 2019 – Aug 2020

- Developed highly available and scalable applications for user registration and device activation.
- Utilized Scala ecosystem technologies such as Http4s, Akka HTTP, Cats, Cats Effect
- Implemented data persistence solutions using MongoDB and Apache Kafka
- Deployed applications to Kubernetes clusters on AWS, ensuring scalability and reliability.

Platform Engineer

Telegraph Media Group (London, UK) — Oct 2018 – Feb 2019

- Developed high-traffic, scalable internal platforms using Scala and Java
- Powered The Telegraph's websites, mobile apps, and third-party applications
- Leveraged AWS and Google Cloud Platform (GCP) for cloud infrastructure
- Improved core platform services, including Content API, User Preferences, and Sitemap Service

Java / Scala Developer

WorldFirst (London, UK) — Jan 2017 – Aug 2018

- Spearheaded the modernization of a monolithic compliance system into microservices architecture
- Utilized technologies: Java 8, Scala, Apache Kafka, Akka, React.js, Docker, and Kubernetes
- Developed a third-party card transaction integration system with a focus on compliance and SLAs
- Collaborated closely with business stakeholders to align solutions with business needs

Java Developer

NET-A-PORTER.COM (London, UK) — Mar 2011 – Mar 2016

- Collaborated as part of an Agile team responsible for the development of web applications
- Utilized technologies: JavaScript, Node.js, Java, Spring, and MySQL
- Improved automated testing by introducing BDD with Cucumber and Selenium
- Replaced legacy cron-based dataflow with Apache ActiveMQ

Java Developer

Animation 2000 Ltd (Pinewood Studios, UK) — Apr 2004 – Feb 2011

- Designed and implemented SD Payroll System, a specialized solution for the film industry
- Successfully implemented the HMRC Gateway Document Submission Protocol
- Contributed to the setup and maintenance of standby database

Education

M.Sc. Computing Technologies

University of Northumbria at Newcastle — 2003

B.Sc. Computing Science

Xi'an University of Technology — 1996

References

Available on request